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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,909		03/25/2004	Ryo Shimizu	30033.0010	7409
26712	7590	05/31/2005		EXAMINER	
HODGSC	N RUSS	LLP	HURLEY, SHAUN R		
ONE M.&	T PLAZA			<u></u>	
SUITE 200	00		ART UNIT	PAPER NUMBER	
BUFFALO, NY 14203-2391				3765	
				DATE MAILED: 05/31/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	055 4 6 0 0 0 0	10/808,909	SHIMIZU, RYO				
	Office Action Summary	Examiner	Art Unit				
		Shaun R. Hurley	3765	····			
Period fe	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the	correspondence addres	S			
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reployer of the provision of	.136(a). In no event, however, may a reply be ti ply within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this commul ED (35 U.S.C. § 133).	nication.			
Status							
1)🛛	Responsive to communication(s) filed on 25 l	March 2004.					
2a)□	· · · · · · · · · · · · · · · · · · ·	is action is non-final.	1				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examination The drawing(s) filed on <u>25 March 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a)⊠ accepted or b)⊡ objected or b)⊡ objected or b)⊡ objected or b) objected or b	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.	• •			
Priority	under 35 U.S.C. § 119						
а)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat onty documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stag	je			
Attachmer	nt(s)						
1) Notic	ce of References Cited (PTO-892)	4) Interview Summary					
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date <u>03/25/04</u> .	Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Pate Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al (2002/0069750) in view of Klein et al (5899134).

Uchida teaches a braiding composition (Figure 11) using a wide yarn (Figure 4), wherein a pair of braiding threads (21, 23) having braiding angle ±6° to the axis of the mandrel (Figure 11) are composed of wide yarns having a band shape with a wide width, and are braided around the mandrel without any gap to form a cylindrical braiding layer. The braid also comprises an axial thread having a braiding angle of 0° to the mandrel (22), as well as the method of producing such a braid using bobbin carriers (Figure 10). While Uchida essentially teaches the invention as discussed above, he fails to specifically teach cutting the resulting braid in the axial direction, so as to form a sheet for further use. Klein teaches that cutting a braid in the axial direction for forming a sheet for further use is well known in the art (Column 3, lines 17-18). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to cut the braid as taught by Klein, so as to produce a flat braid capable of being used in a 2 dimensional situation. Klein teaches that cylindrical braids, as are well known in the art, can be cut into a sheet, providing a sheet of material with strength far beyond that of a normal weave, in part due to the axial and offset pair of braiding threads. The braid of Uchida would be capable of being

Application/Control Number: 10/808,909 Page 3

Art Unit: 3765

cut as taught by Klein, and would provide the ordinarily skilled artisan with a structure which would provide additional strength, as desired.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Head (6112634) and Freitas et al (6128998) both teach what is well known in the braiding art.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaun R. Hurley whose telephone number is (571) 272-4986. The examiner can normally be reached on Mon - Fri, 6:30 am - 3:00 pm, off second Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John J. Calvert can be reached on (571) 272-4983. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SRH 27 May 2005

Shaun R Hurley Patent Examiner

Tech Center 3700